

 coating having an as-sprayed surface roughness that promotes the adhesion of polymer deposits.

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 16. (Amended) A component of a plasma reactor, the component comprising aluminum having an anodized or non-anodized plasma exposed surface, the component comprising an as-sprayed plasma sprayed coating on a plasma exposed surface of the component, the coating having an as-sprayed surface roughness that promotes the adhesion of polymer deposits.

17. (Amended) A component of a plasma reactor, the component being made from a ceramic material selected from the group consisting of alumina, yttria, zirconia, silicon carbide, silicon nitride, boron carbide and boron nitride, the component having one or more surfaces exposed to the plasma during processing, the component comprising an as-sprayed plasma sprayed coating on a plasma exposed surface of the component, the coating having an as-sprayed surface roughness that promotes the adhesion of polymer deposits.

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 27. (Amended) A method of processing a substrate in the plasma reactor of claim 26, the method comprising contacting an exposed surface of a substrate with a plasma.

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34. (Amended) A component of a plasma reactor, the component having one or more surfaces exposed to the plasma during processing, the component comprising a coating formed by a process consisting essentially of plasma spraying a coating material on a plasma exposed surface of the component that has not been roughened, the coating being (i) a ceramic material comprising at least one material selected from the group consisting of yttria, alumina, zirconia, silicon carbide and boron carbide or (ii) a metallic material, the coating having an as-sprayed surface roughness that promotes the adhesion of polymer deposits.